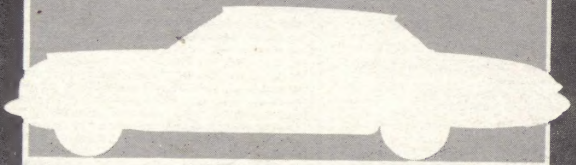
CATALOG NO. 61-P
FEBRUARY 1961

VALVE
ENGINE
BRAKE
BODY
COOLING
IGNITION



K-D TOOLS

The Greatest Line of Labor-Saving Hand Tools in America

K-D MANUFACTURING CO.,
LANCASTER, PA., U. S. A.

PLIERS
HEX KEYS
WRENCHES
SCREW-DRIVERS
SNAP RINGS
WASHERS

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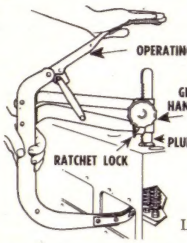
ADJUSTMENT AND REPAIR POLICY

We do not authorize the free replacement of *any* K-D Tools from Jobbers stock. Broken, or so-called "defective" tools may be returned prepaid to the factory for repair if possible, or replacement at our option. Repair charges, if any, and return transportation will be invoiced. Charges depend on the condition of the tools and the number of new parts required.

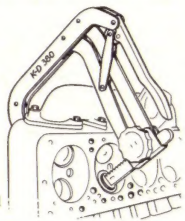
380 VALVE SPRING COMPRESSOR

Services over 85% of motors on the road today. Just about the most universal Compressor on the market.



L-head

Handles 85%



Valve-in-head

Ideal for general shop. Services all modern V-8 valve-in-head engines, older L-heads, plus many truck, bus, and tractors.

Throat opening 10" x 10-1/4". Adjustable Jaws and adjustable Plunger Bar. Plunger Bar seats on both flat and cup shaped valve heads. Rigid bar steel construction, strongly braced and riveted. Rustproof cadmium finish. Nos. 32 Offset, 35 Straight Jaws furnished.

OPERATION

After depth adjustment is set for first spring, remainder are serviced by working Operating Handle. Complete instructions packed with tool.

383 VALVE SPRING COMPRESSOR

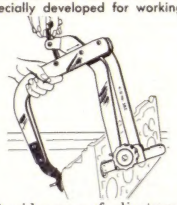
Especially designed to service modern V-8 valve-in-head engines. Location of Operating Handle makes tool fast, easy to use.

Ideal for general shop. Will service many smaller L-head engines if manifolds removed. Heavy bar steel, adjustable Jaws. Inside clearance 7-3/8". Rustproofed. No. 32 Offset Jaws furnished.

After depth adjustment is set for first spring, remainder are serviced by working Operating Handle. Complete instructions packed with tool.

382 VALVE SPRING COMPRESSOR

For L-head and valve-in-head engines, old or new. Especially developed for working in close quarters.



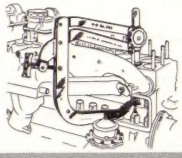
Tight places

A wide range of adjustments are possible with the Plunger Bar and Operating Handwheel. Tool will service valves of all lengths. Throat opening of 9¾" also makes it possible on many engines to span manifold, remove and replace valves without changing working position.

Rigid bar steel, strongly braced. Rustproofed. Nos. 32 Offset, 35 Straight Jaws furnished.

OPERATION

Once adjusted for first spring, remainder are serviced by turning Operating Handwheel. Instructions furnished.



325 HEAVY DUTY COMPRESSOR

Truck, Bus, Tractor

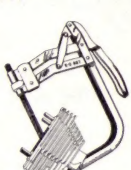
One man can operate this rugged, powerful tool on most engines with manifolds in place. Flexible adjustments permit servicing all length valves. Nos. 32, 35, 38 Jaws furnished (see page 5).

Valve springs are raised, lowered by turning Operating Handle. Automatic Brake may be preset. Complete instructions furnished.

887 VALVE SPRING COMPRESSOR *for fractional H.P.*

Approved principle, meets government specifications for use on fractional H.P. engines. Adjustable plunger, rugged construction, adjustable jaws integral with frame for rigidity. Rustproofed. Throat measures 4 3/16" x 5 5/16".

Depth adjustment is set on the screw for the first spring, remainder serviced with one quick stroke of the Operating Handle.



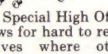
Compressor Jaws

For 325, 380, 382, 383 Compressors. Oil tempered, adjustable.

32 Offset Jaws.

35 Straight Jaws.

36 Special High Offset Jaws for hard to reach valves where other jaws strike; examples: Chrysler products, I-H, Jaguar, White and similar.



38 Extra Hi-Offset. For use on motors with low manifolds.

38W Jaws for White motors. Same as No. 38 but altered to prevent striking block.

39 Jaws for International Engine #450. Same as No. 38 but altered to accommodate special valve spring washer.

385 VALVE SPRING COMPRESSOR

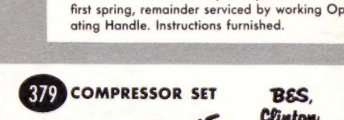
For **only** very small valve-in-heads or L-heads with **light weight valve springs.** Services early Buick, Chevrolet, Wisconsin Motors (VE4, VF4, AB, AK single cyl.) plus many industrials. Suitable for L-heads if manifolds removed. Adjustable Jaws. Throat 4-3/4" x 6-1/4". Rustproofed.

OPERATION. After depth adjustment is set for first spring, remainder serviced by working Operating Handle. Instructions furnished.

379 COMPRESSOR SET

B&S, Clinton, Kohler

378 Valve Spring Compressor



376 Valve Keeper Inserter

Consists of 376 Inserter and 378 Compressor. No. 378 has Operating Handle at rear for more convenient operation.

374 VALVE KEEPER INSERTER

For installing horseshoe valve locks in Clinton engines. Similar to K-D 376 with larger Jaw Magnet. 6-1/2" long, rustproofed.

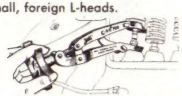
600 VALVE SPRING LIFTER

For practically all L-head motors. Parallel Jaw action.

Fast scissors-type Lifter for automotive, industrial, marine motors where operation in a horizontal position is possible. Ratchet Lock Release, adjustable Jaws, 10" long. Rustproofed.

700 VALVE SPRING LIFTER

For deep set L-heads, over or under fenders. Ideal for all Chrysler-built L-heads, also Ford 6, 1948–52 incl., many small, foreign L-heads.



Screw-type Lifter, provides plenty of easy lift and clear view of valve. Automatic locking any height. Adjustable Jaws. Only 8" long. Rustproofed.

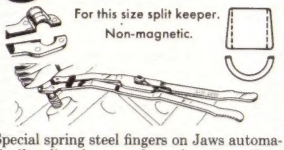
605 VALVE KEEPER INSERTER

For split keepers with O.D. not less than 7/16", I.D. or valve stem diam. not greater than 3/8".

Easy loading, fast operating. Pressing pads on Handles opens Jaw Springs to load. 7" long, rustproofed.

608 VALVE KEEPER INSERTER

For this size split keeper. Non-magnetic.



Special spring steel fingers on Jaws automatically align keepers for valve stem. Easy loading. 8" long, aluminum alloy.

607 VALVE KEEPER INSERTER

For this size split keeper only (used in most later model L-head engines).

Keepers are automatically and properly aligned on permanent Jaw Magnets. Long and thin for Chrysler-built and Ford-built. 8" long, aluminum alloy.

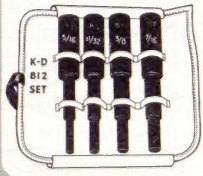
609 VALVE KEEPER INSERTER

For split collar-type keepers used on rotating, free-type valves.

Specially designed for Ford trucks with free-type valves, also services Massey-Harris "Pony" and Allis-Chalmers Model "G" Tractors. 4-1/2" long, self-supporting on valve stem. Aluminum alloy.

812 VALVE GUIDE DRIVER SET

Popular sizes to service 90% of cars and small trucks.



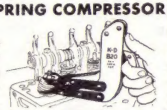
Fits 90%!

Set consists of 4 Drivers in plastic kit. Precision machined for accurate fit. Each 6-3/4" long.

814 Pilot diam. 5/16". Body diam. .485".
815 Pilot diam. 11/32". Body diam. .552".
816 Pilot diam. 3/8". Body diam. .615".
817 Pilot diam. 7/16". Body diam. .675".

Drivers may be purchased separately

820 VALVE SPRING COMPRESSOR



For replacing valve springs (heads on or off) without removing rocker arm assemblies.

Originally designed for angled Chevrolet springs, this tool can be used on most all valve-in-head engines. Moving Operating Handle down compresses spring, locks Jaws. Oil tempered, adjustable Jaws, heavy bar steel Frame. Rustproofed.

Use K-D 901. Valve is held closed by air pressure applied through the applicable size of K-D 901 Air Hold. See page 8.

245 BAR TYPE VALVE SPRING LIFTER

Pulls guide assemblies down for replacement of retainers.

For Ford V-8 and Mercury, 1934 to 1953. Chrome vanadium steel, "girder" constructed jaws, identical at each end. Correctly designed, tempered, rustproofed. 30" long.

917 FORD VALVE GUIDE DRIVER

For all Ford-built motors from 1934 to 1953 which use the horseshoe keeper. With hooked end of 917 engaged in hole in keeper tab, keeper is driven out. Alloy steel, machined, tempered and rustproofed.

Use with 245 Bar Lifter, this page.

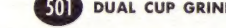
922 REPLACEMENT VALVE GUIDE RETAINERS

Fit Ford V-8, Mercury, Ford 4 & 6 cyl, Ford Tractor. Boxed per 100 (plated only). Also available in bulk, plated or unplated, 3000 up.

K-D VACUUM CUP VALVE GRINDERS

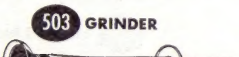
For hand grinding flat head, unslotted valves. Synthetic rubber Vacuum Cups are impervious to oil, grease, gasoline, atmospheric conditions. Made with thin walls for greater suction, and are replaceable.

501 DUAL CUP GRINDER



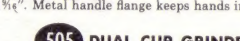
Cup diameters ⅝" and 13/16" for small valves. High impact plastic handle.

503 GRINDER



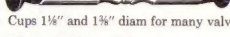
For valves with head diam of 1½". Equipped with 1⅜" diam Cup. Metal Retaining Ring prevents Cup from slipping off center. Retaining Ring I.D. 1 5/16". Metal handle flange keeps hands in place.

505 DUAL CUP GRINDER



Cups 1½" and 1⅜" diam for many valve sizes.

506 GRINDER



Popular, low priced. Cup 1⅜" diam.

505BF. Like 505, with 15/16" and 1 1/16" diam Cups. For small motors and industrial engines.

506BF. Like 506 with 15/16" diam Cup. For British Ford, other small motors.

510G. Like 505, with 13/16" and 1 1/16" diam Cups. For 1" and 1¼" diam valve heads.

REPLACEMENT CUPS FOR VALVE GRINDERS

Synthetic rubber, 5 diam: 13/16", 15/16", 1 1/16", 1⅛", 1⅜". Be sure to specify diam. when ordering.

ADAPTORS FOR MECHANICAL VALVE GRINDERS

504

For use on flat head, unslotted valves. Synthetic rubber cups.

504. Cup diam 1⅜". Metal Retaining Ring prevents Cup slipping off center while grinding.

507
508G
509

507. Cup only, 1⅛" diam.

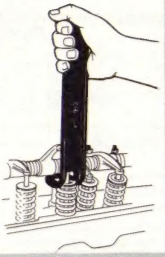
508G. Cup only 13/16" diam. For 1" diam valves.

509. Cup only, 1⅜" diam.

910 CHEVROLET 6 CYL. VALVE SPRING COMPRESSOR

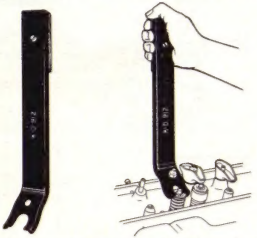
For compressing an occasional weak or broken spring for replacement. With the rocker arm moved aside, the 910 hooks under bearing rod and downward pressure compresses spring. Heavy gauge channel steel construction, heat treated black finish. 10" long.

USE K-D 901-18MM, see below.



Without removing heads!

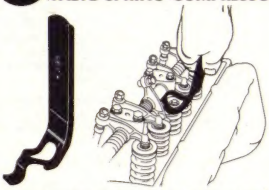
912 CHEVROLET, PONTIAC, 8 CYL. VALVE SPRING COMPRESSOR



For replacing an occasional weak or damaged valve spring on single stud rocker arm engines. Rocker arm is removed and 912 is fastened to its stud with nut. Handle has sufficient leverage to compress heaviest double valve springs. Services Pontiac and Chevrolet, 1955 to date. Heavy gauge channel steel construction with easy grip wood handle. Heat treated, black finish, 12½" long.

USE K-D 901-18MM, see below.

915 FORD OVERHEAD VALVE SPRING COMPRESSOR



For removing and replacing the occasional single valve spring. Also handles Olds 1949 to date. With rocker arm disconnected and moved aside the 915 hooks under the rocker arm bearing rod and downward pressure compresses spring. 7½" long.

USE K-D 901-14MM, see below.

914 CHEVROLET LOW CAB FORWARD TRUCK VALVE SPRING COMPRESSOR

For replacing a single valve spring on these single stud rocker arm engines. With rocker arm removed, place nut back on stud. Forked end of tool straddles stud, downward pressure compresses spring. Works under cab and clears exhaust manifold. Heavy bar steel, heat treated, black finish. 11½" long.

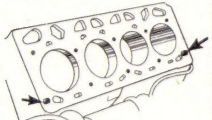
USE K-D 901-18MM, see right.

901 Air Hold Set

Fits spark plug holes 14MM and 18MM. Threaded to take standard air hose coupling. Used to apply air pressure to valve heads and keep them closed while servicing single valve with K-D Nos. 820, 910, 912, 914, 915. Precision made, properly heat treated and rust proofed.

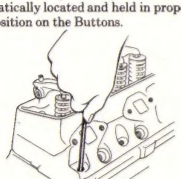
480 HEAD AND GASKET ALIGNING TOOL

Consists of two 7/16" Aligning Buttons, two ½" Aligning Buttons and a Pulling Rod. The Buttons are higher than the aligning pins installed at the factory and are sure to pilot perfect alignment. A great work and finger saver, especially on V-8 and slant heads. Compact and easy to use. Nicely finished and rustproofed. 8⅞" long.



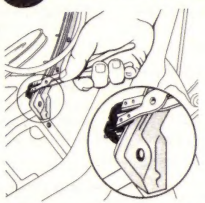
Aligning Buttons are placed in head bolt holes, one at one end of the block, the other at the opposite end.

Gasket is put into place, is automatically located and held in proper position on the Buttons.



Head is put on, aligning with Buttons. Head secured with several of its bolts and the Pulling Rod is inserted through the bolt holes to remove the buttons. Rod has spring and pin catch which arrests button.

475 CRANKCASE GASKET PLIERS

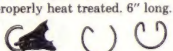


For slant Sixes, VALIANT, DART, LANCER, PLMOUTH. It is impossible to install the rubber gasket at the front of the crankcase without this tool. Jaws are properly angled, knurled and heat-treated. 7⅛" long.

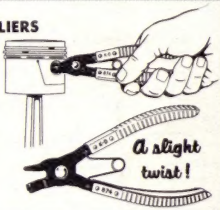
Rubber nibs on gasket are pushed up into positioning holes as far as they will go. The 475 reaches over flange, grips nibs and pulls them completely through, properly seating the gasket. It is impossible to push the nibs through with your fingers . . . they must be pulled through!

874 PISTON PIN LOCK PLIERS

The easy way to remove and install all sizes of piston pin locking rings without distorting or losing them. Special design of jaws grips securely and a slight twist brings them out, the reverse re-installs them. Jaws properly heat treated. 6" long.



Handles these types.



190 UNIVERSAL OIL FILTER WRENCH

For removing all disposable oil filters, cars and trucks. Positive friction grip with enough leverage to exceed normal requirements. WILL NOT PUNCTURE OR CRUSH filter. Operates in close quarters. FOR TIGHT PLACES, disassemble band at bolt, wrap around filter, reassemble with bolt and proceed. Sturdy construction with tough alloy steel band, toggle linkage for extra gripping power.

Won't slip, puncture or crush!

870 PISTON RING FILER

A portable, rotary Filer. Sizes any make, type, size of ring with machine shop accuracy. Ring is held against calibrated gage plate. Turning crank files both ends at same time.

872 Cutter File for No. 870. Select tool steel, milled to maximum sharpness, correctly tempered.

177 CYLINDER HEAD HOLDER

Holds all sizes of cylinder heads in any position for cleaning and valve servicing. Perfectly balanced. Heads bolt to support brackets. T-handle locks brackets at any angle. Legs adjustable on base for any length of head. Completely portable, can be used anywhere in the shop. It is light, compact and low-priced. Complete instructions. Only 9½" from bench to mounting bracket!

1 No. 175 Cylinder Head Holder
1 No. 176 Base for Cylinder Head Holder

K-D PISTON RING EXPANDERS WITH ADAPTORS

These K-D Piston Ring Tools apply the only correct mechanical principle to expand piston rings without strain or distortion.

It is accomplished by using an Expander with a separate Adaptor Ring for each size of piston ring. Each Adaptor will service **only** its corresponding ring size, and the Expander can be used **only** with the Adaptor.

These tools reduce breakage, and save time. There is nothing difficult or special in their operation. Adaptors are easily changed.

Adaptors are correctly sized to service each ring size. Expander Jaws are tempered. All steel parts rustproofed. Complete operating instructions furnished with the tools.

THE K-D PRINCIPLE

Pressure is applied to the ring ends by the Expander Jaws (black arrow). Ring expansion is equalized (white arrows) by the Adaptor and distortion prevented.

The Correct Principle!

880 PISTON RING EXPANDER SET

This set will handle 80% of all cars and trucks. One 880E and Adaptors sizes 3⁷⁄₁₆", 3½", 3⁹⁄₁₆", 3⅝", 3¾" and 4" in sturdy fibre board storage box.

880E EXPANDER ONLY, NO ADAPTORS

Will handle all ADAPTORS, sizes 1½" to 5" as they become available. Adaptors snap into slots in the Expander, handles adjust to ring size. Expander should not be used without correct size Adaptor. Complete instructions.

ADAPTORS FOR 880E

3"	3⁷⁄₁₆"	3⅝"	4⅛"
3¼"	3½"	3¾"	4.3"
3⅜"	3⁹⁄₁₆"	4"	

Ring size clearly marked on each Adaptor.

881 PISTON RING EXPANDER

One 880E and one 4" Adaptor

875 PISTON RINGER *Small rings!*

A pocket-size tool to remove, install rings up to 4". Light, strong, dependable. Ring gripped as shown, is expanded when handles are compressed.

890 EXPANDER ONLY, NO ADAPTORS

For ring sizes 5" to 10⅞", to order.

891 EXPANDER ONLY, NO ADAPTORS

For ring sizes 11" to 13⅞", to order.

892 EXPANDER ONLY, NO ADAPTORS

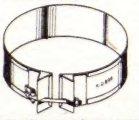
For ring sizes 14" to 17½", to order.

ADAPTORS FOR 890–891–892

Made in a range of sizes from 5" to 17½". Carefully machined, size marked. Order by ring size.

895 PISTON RING COMPRESSOR

For 8½" rings. Made to meet government specifications. Other sizes available on special order.



K-D BRAKE TOOLS

As fast as the needs arise, depend on new, unique and time saving Brake Tools from K-D. With the tools shown on the following pages, a brake mechanic can do just about every job calling for a special hand tool.

K-D.... the BIG Brake Tool line!

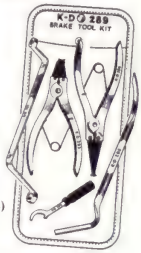
290 MASTER BRAKE TOOLS

This Master Assortment of 10 Tools contains the principal hand tools required to service LOCKHEED, BENDIX and TOTAL CONTACT Brakes. Made up of the 288 and the 289 Brake Tool Kits. The kits are of durable, see-through plastic with button flaps and are secured to a sturdy display stand with easel for counter display.

288 BRAKE TOOL KIT

Contains:

270 Brake Shoe Spring Tool for Lockheed, total contact (page 12)
280 Brake Shoe Spring Tool for Bendix (page 12)
285 Shoe Retaining Spring Tool for Bendix (page 12)
286 High Offset Brake Wrench 3/8" and 7/16" (page 13)
287 Brake Adjusting Tool (page 13)



289 BRAKE TOOL KIT

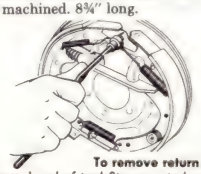
Contains:

291 High Offset Brake Wrench, 1/4" and 3/8" (page 13)
292 Chrysler Hand Brake Adjusting Tool (page 13)
293 "C" Washer Pliers for Lockheed (page 14)
294 Brake Piston Puller for Lockheed (page 14)
295 Brake Adjusting Tool, Corvair & Ford line (page 14)

Other BRAKE TOOLS not included in these Kits are shown on pages 12, 13, and 14.

280 BRAKE SHOE RETURN SPRING TOOL for BENDIX

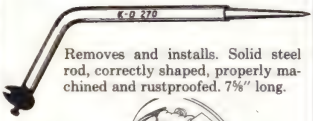
Removes and installs. Solid steel rod, properly machined. 8¾" long.



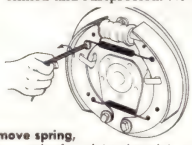
To remove return spring, cupped end of tool fits over stud and spur engages hook on spring. A twisting motion releases spring from stud.

To replace spring, the straight end of the 280 is rested on the stud, the hooked end of the spring is engaged on the shank of the tool and the spring is levered into position.

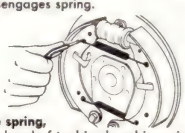
270 BRAKE SHOE RETURN SPRING TOOL for LOCKHEED and TOTAL CONTACT



Removes and installs. Solid steel rod, correctly shaped, properly machined and rustproofed. 7⅝" long.



To remove spring, stud on end of tool is placed in spring mounting hole and notch in flange is engaged in hook of spring. A twisting motion disengages spring.



To replace spring, the pointed end of tool is placed in spring mounting hole, the spring is engaged on the taper and is levered into place. Note the shoulder . . . an exclusive feature!

285 BRAKE SHOE RETAINING SPRING TOOL

Removes and replaces the dished retaining washer of spring assembly. Cup is knurled for secure grip and notched for washers with ears. Non-slip plastic handle, 7" long.

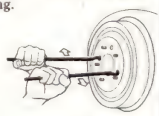
Cup is placed on retaining washer. Pressure on handle depresses spring and a twisting motion disengages washer for removal. To replace, reverse the procedure, aligning first on T-head rivet.

284 CHEVROLET REAR BRAKE DRUM PULLER

Use no heat!

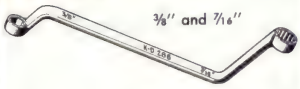
For freeing "frozen" brake drums from axle flanges, Chevrolet 1940 to date. Uses no heat, therefore no danger of distorting drum. Made of special alloy steel, properly tempered for service. Used only as a pair. Really fast! 12⅛" long.

Wedge-shaped ends of Pullers are driven into holes between drum and axle flange on opposite sides of axle.

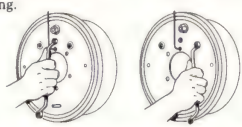


With an outward, alternate, rocking motion, the drum is pried loose. Both Pullers must be used to prevent binding. No heat necessary. Use penetrating oil.

286 HIGH OFFSET BRAKE WRENCH



Special high offset shape works on all brakes 3/8" and 7/16" including CHRYSLER. 3/8" hex socket to bleed and 7/16" twelve point socket to adjust. Precision made, tempered and rustproofed. 8¾" long.



287 BRAKE STARWHEEL ADJUSTING TOOL

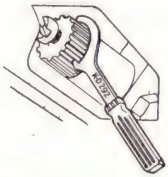
Special shape, angled and curved gives greater application. Forged steel, carefully machined, tempered and rustproofed. 9" long. (See 295, page 14 for Corvair and Ford line.)

291 HIGH OFFSET BRAKE WRENCH

Special high offset permits easy access. Will bleed and adjust brakes on STUDEBAKER, NASH, PACKARD, others. Forged steel, precision machined, tempered, rustproofed. 8¼" long.

292 CHRYSLER HAND BRAKE ADJUSTING TOOL

Reaches into housing and adjusts spline on all cars with transmission hand brakes, special shape for correct pushing action. Firm, positive. Red plastic handle. 3¾" long.

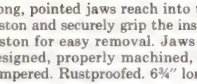


293 "C" WASHER PLIERS for LOCKHEED

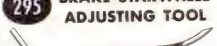
Expands and removes the "C" shaped washer at the bottom of Lockheed shoes. Exclusive design permits operation through 360°, no matter what the position of the washer. Jaws specially designed, properly machined, correctly tempered. Rustproofed. 6" long.

294 BRAKE PISTON PULLER for LOCKHEED

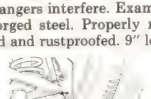
Long, pointed jaws reach into the brake piston and securely grip the inside of the piston for easy removal. Jaws specially designed, properly machined, correctly tempered. Rustproofed. 6¾" long.



295 BRAKE STARWHEEL ADJUSTING TOOL

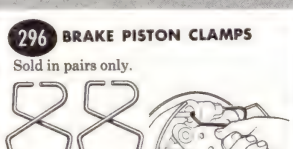


Will work on most brakes but is especially adapted to CORVAIR and the FORD line. Special angled end permits operation from a side angled position in cases where spring hangers interfere. Example: CORVAIR. Forged steel. Properly machined, tempered and rustproofed. 9" long.



296 BRAKE PISTON CLAMPS

Sold in pairs only.

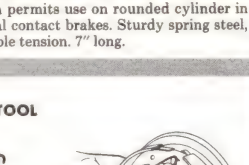


For holding brake piston under compression when shoes are removed. Special design permits use on rounded cylinder in total contact brakes. Sturdy spring steel, ample tension. 7" long.

297 BRAKE SHOE RETAINING SPRING TOOL

For FALCON, COMET, VALIANT and others using this type spring.

Reaches into center of spring to disengage it from retaining washer on the inside of the drum. Special shoulder prevents setting spring by over-stretching. Solid steel rod, carefully machined and rustproofed. 6½" long.



Insert 297 in spring, depress and twist slightly to release spring. Left hand is placed back of drum to prevent clip from falling where spring is removed.

1500 TIRE PROBING TOOL

Spreads cuts in tires for easy removal of foreign bodies, without mutilating tires. Absolutely necessary for checking tubeless tires. Probes are inserted lengthwise into cut, turned at right angles. Squeezing Handles spreads Jaws, opens cut. 6" long, all steel, rustproofed. Tempered probes.

Meets Federal specifications.

"BINGO" WHEEL PULLERS

A quick, convenient method for jarring wheel hubs loose without damage to axles. Specially heat treated for hard service. All sizes 2-1/4" long. Sizes as follows:

5/8" x 18	7/8" x 16	1-1/4" x 7
3/4" x 16	7/8" x 18	1-1/4" x 12
3/4" x 20	1" x 14	1-1/2" x 6
13/16" x 16	1-1/8" x 7	1-1/2" x 12
7/8" x 14	1-1/8" x 12	

804 AXLE PULLER SET

For pulling threaded axle shafts.

Set consists of 20" machined Bar with Sliding Hammer, plus Nos. 805, 806, 807 Adaptors (right) to fit popular size axle shafts. Adaptors are threaded on axle shaft, Bar is then threaded into Adaptor. Striking Hammer against hex nut at other end of Bar pulls axle. Also included is No. 809 Driving Cap which converts Adaptors into knock-off wheelpullers.

Rugged construction, machined steel parts, rustproofed. Adaptors heat treated, but not subject to return for replacement. Complete instructions furnished.

ADAPTORS FOR K-D 804 AXLE PULLER

No. 805, 806, 807, 808

No. 809 Driving Cap

805 Size 5/8" x 18. 2-1/4" long.

806 Size 3/4" x 16. 2-1/4" long.

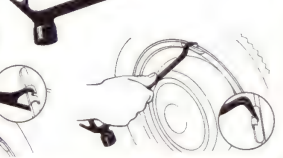
807 Size 7/8" x 14. 2-1/4" long.

808 Size 1" x 14. 2-1/4" long. Not furnished with 804 Set.

809 Driving Cap. Threads into all Adaptors to convert them into knock-off wheelpullers. 1-1/4" long.

470 UNIVERSAL WHEEL WEIGHT TOOL

To install and remove *all* types of wheel balancing weights. Tough alloy steel, properly machined and heat treated for rugged service. 12" long.



Drives weight into place, crimps automatically.

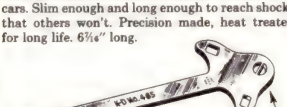
FOR WEIGHTS WITH HOLES, specially shaped hook engages in hole for easy removal.

FOR WEIGHTS WITHOUT HOLES, pointed end of 470 reaches between tire and weight and engages on tongue of weight for easy removal.

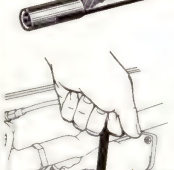
FOR WHEELS WITH COOLING DISCS (Olds, Cadillac) use the cooling disc as a fulcrum to push weight into place.)

465 UNIVERSAL SHOCK ABSORBER TOOL

Used to install all makes of shocks in all makes of cars. Slim enough and long enough to reach shocks that others won't. Precision made, heat treated for long life. 6⅞" long.

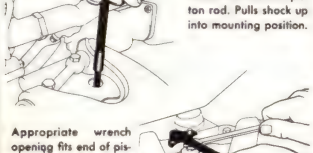


This opening for Delco.



Reaches deep!

Reaches down through mounting hole and threads onto shock piston rod. Pulls shock up into mounting position.



Appropriate wrench openigg fits end of piston rod and holds it securely against turning while mounting nuts are being tightened.

420 RADIO AERIAL PLIERS

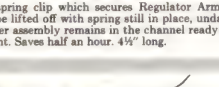
For removing, installing the double notched, cone-shaped nut used on many fender aerials. Useful for many other light spanner wrench jobs. 7¾" long, tempered, rustproofed.

438 WINDOW REGULATOR ARM REMOVER

For Ford-built

Releases spring clip which secures Regulator Arm so Arm can be lifted off with spring still in place, undamaged. Roller assembly remains in the channel ready for replacement. Saves half an hour. 4½" long.

425 BULB PLIERS



Removes, installs bayonet and flange types. Jaws milled with sharp teeth for sure, non-slip grip on base of bulbs to prevent breaking glass. Jaws offset to prevent scratching reflectors. 7½" long, tempered.

DOOR HANDLE TOOLS

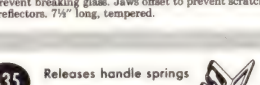
430 Removes all springs of this type.

ROLL SPRING OUT. DO NOT FORCE!

Abuse voids guarantee.

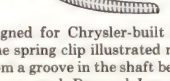
For all GM cars since 1933; all Ford-built since 1951; all others using this type clip. Provides fastest, surest way to reach and remove interior door handles. Won't mar upholstery, reduces danger of flying springs. Strong, all steel with very thin spring steel Jaws. Jaws improved to handle latest models. 8" long. Rustproofed.

435 Releases handle springs of this type.



Specially designed for Chrysler-built cars since 1955. The spring clip illustrated must be released from a groove in the shaft before handle can be removed. Pronged Jaws also useful in removing interior door trim panels. All steel, rustproofed, correctly tempered. 9" long.

SURE, SIMPLE OPERATION



Jaws slide between handle boss and upholstery washer until "bottoming" on spring clip. Squeeze Handles together gently, just to release clip from groove. By "feeling your way", pull handle off. DON'T PRY! Complete instructions furnished.

140 MULTI-PURPOSE CLAMP

A sturdily designed screw clamp with wide, strong jaw pads useful for many purposes around a shop: BODY REPAIRS, WELDING, STRAIGHTENING, carrying and handling BATTERIES and many other uses. Strong steel frame, fast acting screw, secure grip. Rustproofed.

440 MOLDING CLIP INSTALLING TOOL

For clips of this type

Especially designed to install molding clips in Chevrolet, Buick, Olds and Pontiac. Small and easy to handle, with hardened jaws that expand clips correctly without fracturing them. Tempered jaws, rustproofed 5¼" long.

Jaws fit into clip. Squeezing handles expands clip holding it securely in place. Avoid excessive pressure and twisting.

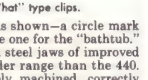
441 UNIVERSAL MOLDING CLIP INSTALLING TOOL

Works on all these types.

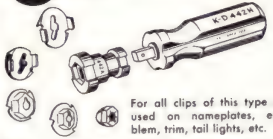
For both the "bathtub" and "hat" type clips.

The jaws are identified as shown—a circle mark for the "hat" clip, a square one for the "bathtub." With reversible hardened steel jaws of improved design, the 441 has a wider range than the 440. Tool steel jaws accurately machined, correctly tempered, rustproofed. 7½" long.

Jaws fit into clip, squeezing handles expand clip, holding it securely in place. Avoid excessive pressure and twisting.

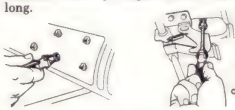


442 MOLDING NUT TOOL



For all clips of this type as used on nameplates, emblem, trim, tail lights, etc.

With reversible head 5/16" and 3/8" the 442 removes and replaces thread cutting nuts and self threading hex nuts as shown. Short, compact design gets into tight places and any ¼" extension drive can be used. Correctly tempered and rustproofed. 3⅞" long.



Using ¼" extension drive for added reach.

442A MOLDING NUT WRENCH HEAD ONLY

442H HANDLE ONLY for 442A and 442B
Comfortable grip red plastic, ¼" square drive.

442B MOLDING NUT WRENCH HEAD

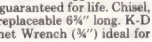
Designed to be used with 442 H Handle ------ or any standard ¼" drive. Has nibs which grip securely even if the ears are broken off the clip or nut.

715 UNIVERSAL NUT CRACKER

Capacity 5/16" through 1 3/16"

Of unique compound angle design with 360° rotating cutter. The 715 will work in places inaccessible to any other. Parallel action of pusher, cracks nuts with no danger of damage to bolt threads . . . cutter never touches the bolt. Rugged aircraft steel, drop-forged frame guaranteed for life. Chisel, pusher, balls and screw replaceable 6¾" long. K-D No. 65 Reversible Ratchet Wrench (¾") ideal for use with this tool. See page 28.

710 NUT CRACKER



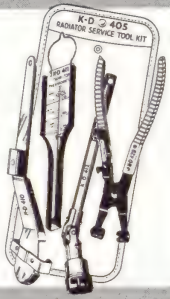
Cracks rusted, stubborn nuts on SHOCKS, MUFFLERS, TAILPIPES, RUNNING GEAR. Strong hex steel construction with hardened tool steel chisel propelled by extra large screw. 4" long. K-D No. 65 Reversible Ratchet Wrench (¾") ideal for use with this tool. See page 28.

405 RADIATOR SERVICE TOOL KIT

The most frequently required tools for radiator service and repair in shops and service stations. Packed in durable, plastic, see-through kit with button flap.

Contains:

410 Radiator Cap Wrench
411 Top Tank Thermometer
412 Petcock Drain Tool
429 Hose Clamp Pliers



410 RADIATOR CAP WRENCH

Another hand saver. No more burned hands. Strong, channel, construction with leverage enough to remove the most stubborn caps. Fits all standard sizes. Rustproofed. 10¼" long.

Don't Scald Yourself!

411 TOP TANK THERMOMETER

Invaluable assistant in checking the condition of the cooling system and the thermostat. Stainless steel case containing complete instructions and suggestions for use. 9" long.

- **Indicates condition of thermostat without removing.**
- **Indicates rust condition, failing water pump.**
- **Indicates operation of dash thermometer.**
- **Indicates type of coolant.**

Complete instructions on Thermometer and on card
Not subject to return if broken.

412 PETCOCK DRAIN TOOL

Socket head fits and holds onto T-handle of petcock while it is being opened. Universal Joint in handle allows operator to stand clear of hot, rusty water. Rugged and rustproofed. 10" long.

Stand Clear!

429 HOSE CLAMP PLIERS

For all clamps of this type.

Positive latch holds clamp securely when expanded

A tool proven in use, improved by the addition of a 4-position automatic thumb latch. Sturdy construction, tempered working parts for long, dependable life. 8½" long.

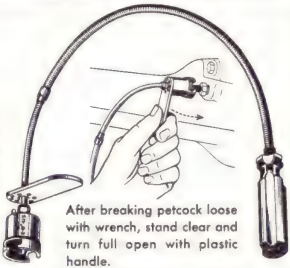
Jaws swivel thru 180°

415

PETCOCK DRAIN TOOL

With long, no-kink "memory" cable, for opening cooling system petcocks. Services cars and trucks, saves uniforms, hands, tempers. Rustproofed. Red plastic turning handle 20⅝" long.

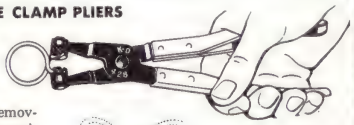
Don't Burn Yourself!



After breaking petcock loose with wrench, stand clear and turn full open with plastic handle.

428 HOSE CLAMP PLIERS

For all sizes clamps like this.

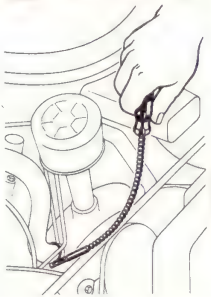


Tool overcomes all the difficulties of removing, installing hose clamps. Slim to reach into tight places; Jaws swivel to handle clamps at any angle.

Double slots in each Jaw provided to hold small or large sizes securely. Jaws close fully so small sizes can be completely expanded. 8-1/8" long, all steel, rustproofed. Tempered Jaws. Instructions furnished.

Jaws swivel through 180 degrees.
Jaws knurled for easier alignment with fingers.

427 Flexible Shaft HOSE CLAMP TOOL



Makes these jobs easier than ever. No kink, "memory" Cable reaches into tight places inaccessible to pliers type tools. Easy turns of plastic Handle operate a screw within the sleeve on end of Cable, compressing clamp. All sizes securely held for removal or replacement. Fast acting. 14⅜" overall, rustproofed. Cable 11" long.

K-D SNAP RING PLIERS

INTERCHANGEABLE POINTS

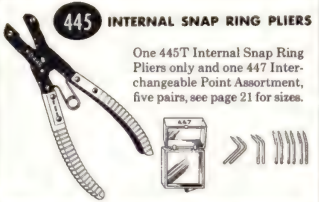
One pliers for internal snap rings; another for external. Using different types and sizes of interchangeable Points a wide range of application is provided. Hexagonal points are automatically aligned and secured in hexagonal shape jaws, secured by a round head screw in each tempered jaw plate . . . they cannot twist. Points are highest quality tool steel, accurately machined and tempered. The Pliers are each 6¾" long with firm-grip handles and rustproof finish.

444 SET

One 445T Internal Snap Ring Pliers, one 446T External Snap Ring Pliers and one 448 Interchangeable Point Assortment, nine pairs, see page 21 for sizes.

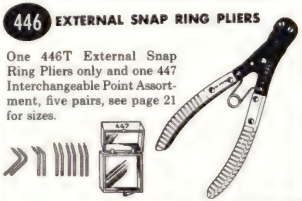
445 INTERNAL SNAP RING PLIERS

One 445T Internal Snap Ring Pliers only and one 447 Interchangeable Point Assortment, five pairs, see page 21 for sizes.



446 EXTERNAL SNAP RING PLIERS

One 446T External Snap Ring Pliers only and one 447 Interchangeable Point Assortment, five pairs, see page 21 for sizes.



446X EXTERNAL SNAP RING PLIERS

Essentially the same design as K-D 446 (above) but with two adjustments for production use, where many rings of the same size are being handled. There is an adjustment stop on the jaws which can be set to any desired point spread and there is also a stop on the handle to control maximum ring expansion.

Shipped with one 447 Point Assortment

446XT EXTERNAL SNAP RING PLIERS ONLY, no points.

SNAP RING PLIERS ONLY, NO POINTS

445T INTERNAL **446T** EXTERNAL **446XT** EXTERNAL

INTERCHANGEABLE POINTS

449P Finest quality tool steel, for use in either 445T, 446T, or 446XT. Hex shape automatically aligned and locked in hex jaws of Pliers. Can't turn! Tips ground with slight reverse taper for more secure grip in ring hole.

Order by COMPLETE type Number as listed below.

TYPE NO.	
449P-.039-15	*(Point diameter .039", angle 15°)*
449P-.047-15	*(Point diameter .047", angle 15°)*
449P-.074-15	*(Point diameter .074", angle 15°)*
449P-.090-15	*(Point diameter .090", angle 15°)*
449P-.039-45	*(Point diameter .039", angle 45°)*
449P-.047-45	*(Point diameter .047", angle 45°)*
449P-.074-45	*(Point diameter .074", angle 45°)*
449P-.090-45	*(Point diameter .090", angle 45°)*
449P-.039-90	*(Point diameter .039", angle 90°)*
449P-.047-90	*(Point diameter .047", angle 90°)*
449P-.074-90	*(Point diameter .074", angle 90°)*
449P-.090-90	*(Point diameter .090", angle 90°)*

.039 point identified by plain shank.
.047 point identified by one notch on shank.
.074 point identified by two notches on shank.
.090 point identified by three notches on shank.

447

K-D 447 Interchangeable Points Set. 5 pairs points in plastic box. One pair each of the following:
No. 449P-.039-15
No. 449P-.047-15
No. 449P-.074-15
No. 449P-.039-45
No. 449P-.047-90

448

K-D 448 Interchangeable Points Set. 9 pairs points in plastic box. One pair each of the following:
No. 449P-.039-15
No. 449P-.047-15
No. 449P-.074-15
No. 449P-.039-45
No. 449P-.047-45
No. 449P-.074-45
No. 449P-.039-90
No. 449P-.047-90
No. 449P-.074-90

451 **INTER–CHANGEABLE POINT SET**

Makes 445, 446, and 446X UNIVERSAL. Same high quality of material and manufacture as other K-D Points. Four pairs in plastic storage box. Contains:
One pair 449P–.020", for smallest rings
One pair 449P–.060–15, four identifying grooves.
One pair 449P–.090–15
One pair 449H—for holeless rings

449H **POINTS FOR HOLELESS SNAP RINGS**

For use with 446T External Snap Ring Pliers. Same high quality materials as other K-D Points.

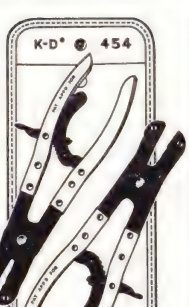
Interchangeable Points:
Standard Package
6 Pair one type
See price list.

450 **JOBBER DISPENSER BOX FREE**

Clear plastic. 18 compartments for stock of points. Reference chart in hinged lid. Box FREE with initial minimum order of 24 prs. of points—any type. Standard refill package—6 prs. of one type in envelope.

MORE RANGE WITH THESE LARGER SNAP RING PLIERS

These tools are designed to supplement the 445 and 446 (page 20). By using the different types and sizes of interchangeable points, the mechanic now has a wider range of applications, both automotive and industrial. Pliers each 9⅜" long with firm-grip handles, automatic ratchet locking device built into handle. Rustproofed.



454 SET

One 455T Internal Snap Ring Pliers only, one 456T External Snap Ring Pliers only and one 457 Interchangeable Point Assortment, (3 pairs Interchangeable Points in plastic storage box), see below. Set packed in durable, see-through plastic kit with button flap.

455 INTERNAL SNAP RING PLIERS AND POINTS

One 455T Internal Snap Ring Pliers only with one 457 Interchangeable Point Assortment, see page 23 for sizes.

456 EXTERNAL SNAP RING PLIERS AND POINTS

One 456T External Snap Ring Pliers only with one 457 Interchangeable Point Assortment, see page 23 for sizes.

459P INTERCHANGEABLE POINTS

For K-D 455T and 456T. Highest quality tool steel, accurately forged, machined and tempered. They are hex shaped and cannot twist because they are automatically aligned and secured in the hex jaws of the Pliers. A round head screw on each tempered jaw plate locks points in place. Point tips are ground with slight reverse taper for more secure grip in ring holes.

Order only by COMPLETE type number.

459P—.108–15 *(Point diameter .018", angle 15°)*
459P—.123–15 *(Point diameter .123", angle 15°)*
459P—.108–45 *(Point diameter .108", angle 45°)*
459P—.123–45 *(Point diameter .123", angle 45°)*
459P—.108–90 *(Point diameter .108", angle 90°)*
459P—.123–90 *(Point diameter .123", angle 90°)*

Minimum order, three pairs one type
.108" Point identified by plain shank
.123" Point identified by one notch on shank

457 INTERCHANGEABLE POINT ASSORTMENT

Plastic storage box containing 1 pair of jaw plate screws and one pair each of the following interchangeable points for use in 455T and 456T:

459P—.108–15 *(Point diameter .108, angle 15°)*
459P—.108–45 *(Point diameter .108, angle 45°)*
459P—.123–45 *(Point diameter .123, angle 45°)*

455T INTERNAL SNAP RING PLIERS ONLY, no points

455T INTERNAL Snap Ring Pliers, designed for rings 2¾" to 4½" Housing diameter.

456T EXTERNAL SNAP RING PLIERS ONLY, no points

456T EXTERNAL Snap Ring Pliers, designed for rings 1½" to 4½" Shaft diameter.

Size Chart included!

985 EMERGENCY SNAP RINGS

52 of the most-called-for rings to handle emergency replacements, in automobiles, industrial equipment, home appliances and many other fields. The chart below used with the silhouette chart on page 24 make it easy to identify the rings for application and for reordering. A silhouette chart is packed with each 985.

'E' Special Series External | 1000 Series External | 1001 Series External (Bowed) | 1200 Series External | 2000 Series External | 3000 Series Internal | 3100 Series External | 3101 Series External (Bowed) | 4000 Series Internal | 4100 Series External

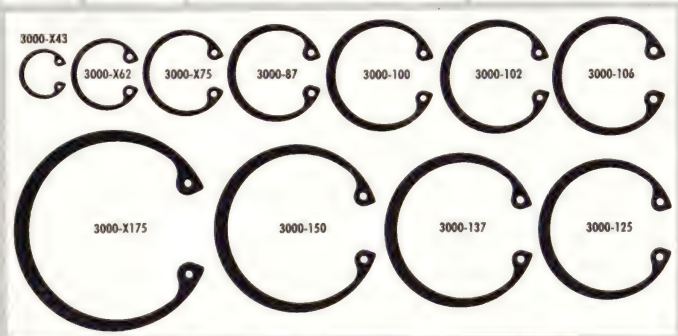
K-D Number	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. 'A'	Pieces in Repl. Pkg.
'E' Special	3/8		.113	15
1000-X11	7/64		.076	20
1000-12	1/8		.094	20
1000-15	5/32		.114	20
1000-18	3/16		.145	20
1000-X18	3/16		.122	20
1000-X21	7/32		.185	20
1000-25	1/4		.207	20
1000-X31	5/16		.243	20
1000-37	3/8		.300	15
1000-43	7/16		.337	15
1000-50	1/2		.392	15
1000-62	5/8		.480	15
1001-50	1/2		.392	15
1200-25	1/4		.204	20
1200-31	5/16		.242	20
1200-37	3/8		.292	15
1200-X56	7/8		.420	12

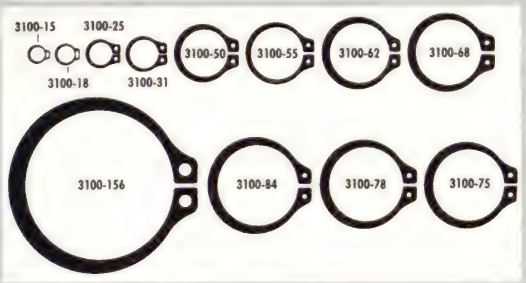
K-D Number	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. 'A'	Pieces in Repl. Pkg.
2000-21	7/32		.188	20
2000-37	3/8		.328	20
2000-50	1/2		.441	15
2000-62	5/8		.553	15
3000-X43		7/16	.482	20
3000-X62		5/8	.694	12
3000-X75		3/4	.831	12
3000-87		7/8	.944	12
3000-100		1	1.081	10
3000-102		1.023	1.106	10
3000-106		1-1/16	1.150	8
3000-125		1-1/4	1.351	7
3000-137		1-3/8	1.486	6
3000-150		1-1/2	1.622	6
3000-X175		1-3/4	1.941	4

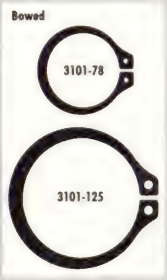
K-D Number	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. 'A'	Pieces in Repl. Pkg.
3100-15	5/32		.142	20
3100-18	3/16		.168	20
3100-25	1/4		.225	20
3100-31	5/16		.281	20
3100-50	1/2		.461	12
3100-55	.551		.509	12
3100-62	5/8		.579	12
3100-68	11/16		.635	12
3100-75	3/4		.693	12
3100-78	25/32		.722	12
3100-84	27/32		.780	12
3100-156	1-9/16		1.446	5
3101-78	25/32		.722	10
3101-125	1-1/4		1.156	6
4000-100		1	1.081	10
4000-112		1-1/8	1.217	7
4100-50	1/2		.461	15
4100-75	3/4		.693	12
4100-112	1-1/8		1.041	6

K-D SNAP RINGS IN 985SP EMERGENCY PACKAGE

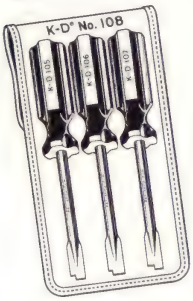
Shown half size







108 DISTRIBUTOR POINT ADJUSTING TOOL KIT



Adjusts breaker point in distributors of late models Chrysler-built and Ford-built. Three sizes, correctly ground, will fit all models to date. A precision made set of tools, tool steel ground and tempered, with red plastic handles, packed in durable see-through plastic kit. Each 6⅜" long.

105 ADJUSTING TOOL for Chrysler-built distributors.

106 ADJUSTING TOOL for Ford-built distributors 1949–1956.

107 ADJUSTING TOOL for Ford-built distributors 1957 to date.

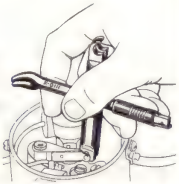
OPERATION

After loosening the breaker arm assembly screw, the offset in the blade of the tool is placed in the hole of the distributor plate, with the edge of the blade in the adjusting slot. Turning the tool right or left adjusts the point clearance. Proper clearance is held securely with tool while plate is being locked into position.

111 UNIVERSAL IGNITION POINT ALIGNING TOOL

For aligning contact points right in the distributor.

Designed to handle all kinds of points in all types of distributors, including Ford. The illustrations show each Arm in use on the type point it is designed to service. Carefully forged and machined, correctly tempered. Rust-proofed. Complete instructions furnished.

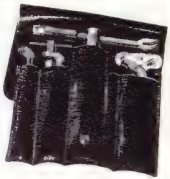


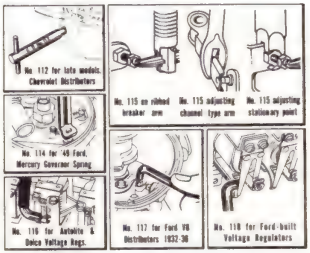
115 IGNITION POINT ALIGNING TOOL

Similar to K-D No. 111 without Delco Heavy Duty Stationary Point Arm. Carefully forged and machined, correctly tempered. Rust-proofed. Complete instructions furnished.

122 IGNITION TOOL KIT

For almost any type ignition adjustment. Many ignition ills occur from incorrect point adjustments on distributors and voltage regulators. This Kit was created to cover all types of ignition service with one complete set of tools. They do the job quickly, accurately, as the result of long and careful study by ignition experts. All carefully machined, tempered, rustproofed. Operation illus. below show each tool in use.




No. 112 for late models, Chevrolet Distributors
No. 115 on ribbed breaker arm
No. 115 adjusting channel type arm
No. 115 adjusting stationary point
No. 114 for '49 Ford, Mercury Governor Spring
No. 116 for Autolite & Delco Voltage Regs.
No. 117 for Ford V8 Distributors 1932-38
No. 118 for Ford-built Voltage Regulators

Plastic case 4 1/16" x 4⅝". Contains following tools:

- **112** Ignition Wrench
- **114** Ford Governor Spring Adjusting Wrench
- **115** Ignition Point Aligning Tool
- **116** Autolite & Delco Voltage Regulator Tool, rubber insulated.
- **117** Offset Screwdriver for Ford V-8 Ignition Point Clamping Screws.
- **118** Ford Voltage Regulator Tool.

Tools may be purchased separately.

132

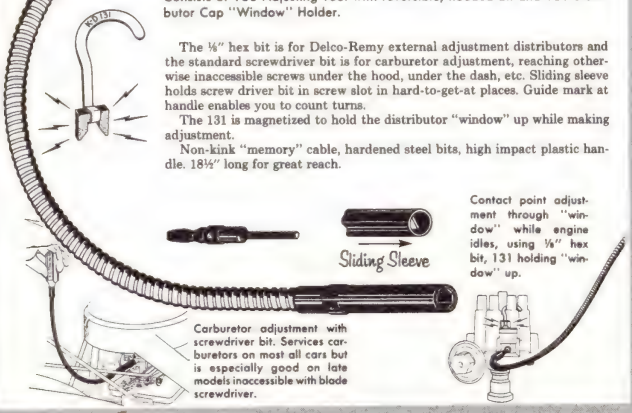
DISTRIBUTOR-CARBURETOR ADJUSTING SET

Consists of 130 Adjusting Tool with reversible, hooded bit and 131 Distributor Cap "Window" Holder.

The ⅛" hex bit is for Delco-Remy external adjustment distributors and the standard screwdriver bit is for carburetor adjustment, reaching otherwise inaccessible screws under the hood, under the dash, etc. Sliding sleeve holds screw driver bit in screw slot in hard-to-get-at places. Guide mark at handle enables you to count turns.

The 131 is magnetized to hold the distributor "window" up while making adjustment.

Non-kink "memory" cable, hardened steel bits, high impact plastic handle. 18½" long for great reach.


K-D 131
Sliding Sleeve
Contact point adjustment through "window" while engine idles, using ⅛" hex bit, 131 holding "window" up.
Carburetor adjustment with screwdriver bit. Services carburetors on most all cars but is especially good on late models inaccessible with blade screwdriver.

5C 3-IN-1

Knurled brass handle, 4-3/8" long. Hardened and ground blades. Packed 12 to display box.

5D 4-IN-1

Like No. 5C, 6-1/8" long.

5S "MITE-E-MITE" *A real brute!*

A mighty stubby, small enough to carry in your pocket, sturdy enough for screws up to size 16. Patented bit handles all sizes, 1–16, Phillips, R & P. Correctly tempered, man-sized high-impact, shock-proof plastic handle. Only 4" long.

5L "FITS-ALL"

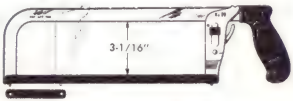
5 screwdrivers in one handle. Patented Reversible Bit fits all Phillips type Nos. 0 to 10. Blade end 3/16" wide. All blades correctly shaped and tempered. Handle can be imprinted, not more than 2 lines. Write for imprinting price.

5R STUBBY *Does the work of 5!*

Reversible Bit same as in No. 5L. Red plastic Handle can be imprinted. Ideal prize, premium, gift. Imprinting price on request.

99 CONVERTIBLE HACKSAW FRAME

The Saw that **"Cuts Around Corners."** Spans obstructions and projections on difficult jobs.



All steel frame with quick blade change feature. Stops to fit 3", 4-1/2", 6", 8", 10", 12" blades.

Saws in places impossible to reach with conventional frames when using 3" or 4-1/2" blade. Streamlined Backbone saws in openings down to 3/16" wide!

Backbone and Handle integral, providing great strength, rigidity. No loose parts; Frame cannot "jackknife." Comfortable pistol Grip, correctly angled for balance. One 4-1/2", one 12" blade furnished.

QUICK, EASY BLADE CHANGE: Release Lever on Tension Bar, install blade, reset Lever. Correct tension assured. Complete instructions furnished.

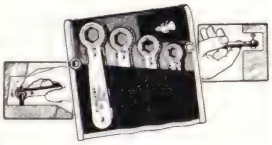
K-D "FLEX-TUNG" HACKSAW BLADES

Finest quality, correctly tempered. One dozen to a package.

No. 13—3"
No. 14—4-1/2"
No. 15—12"
No. 16—10"

20 RATCHET WRENCH SET

Pocketsize kit with hex sizes 3/8", 7/16", 1/2", 9/16" openings.



Reversible Ratchets, no heads to change. Screw or nut held in place for upside down work like a box socket. No. 26 double end Screwdriver Bit to fit 3/8" Wrench included in kit. Correctly tempered Heads and Ratchets.

ORDER INDIVIDUAL WRENCHES BY NUMBER

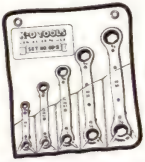
21 Wrench. 3/8" hex. 3" long.
22 Wrench. 7/16" hex. 3-1/2" long.
23 Wrench. 1/2" hex. 4" long.
24 Wrench. 9/16" hex. 4-1/2" long.
26 Screwdriver Bit. 3/4" long.

COMPLETE SETS PACKED IN KITS

Sturdy white plastic rolls with black binding, transparent pockets, wrap-around ties. Very attractive.

60-3 SET.
Three Wrenches (Nos. 62, 63, 65)

60-4 SET.
Four Wrenches (Nos. 61, 62, 63, 65)



60-5 SET.
Five Wrenches (Nos. 61, 62, 63, 65, 66)

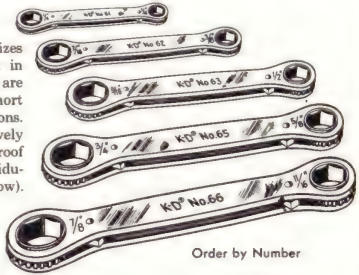
19 RATCHET WRENCH SET

Wrenches 21 (3/8"), 22 (7/16"), 23 (1/2") and 24 (9/16") as described under the 20 SET. These four wrenches are packed only on a Skin Pak rack card. Order no. 19SP (No 21 Wrench 3" long).

K-D REVERSIBLE RATCHET BOX WRENCHES

Quality tools developed by auto mechanics for general service. Popular sizes of hex openings from 1/4" to 7/8".

Selected alloy steel with 10 sizes reversible Heads, graduated in sixteenths. Ratchet Teeth are closely spaced to permit short stroke in tight working conditions. Correctly tempered, attractively finished with bright, rustproof cadmium plating. Sold individually or in complete Sets (below).



5 wrenches, 10 sizes!

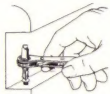
Order by Number

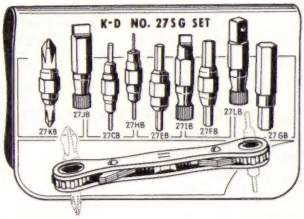
61 Reversible Ratchet Wrench. Length 3-7/8". 1/4" and 5/16" hex.
62 Reversible Ratchet Wrench. Length 5-1/4". 3/8" and 7/16" hex.
63 Reversible Ratchet Wrench. Length 6-1/2". 1/2" and 9/16" hex.
65 Reversible Ratchet Wrench. Length 7-7/8". 5/8" and 3/4" hex.
66 Reversible Ratchet Wrench. Length 9-3/16". 11/16" and 7/8" hex.

K-D OFFSET RATCHET BIT SETS

Designed for all types of close work and right angle applications where bladed tools can't reach. The bits are securely held in the wrench for working upside down.

For all 4 types





27 RATCHET BIT SET
Plastic kit with 27W Reversible Ratchet Wrench and 4 bits: 27AB, 27BB, 27CB and 27DB described below.

27S RATCHET BIT SET
Plastic kit with 27W Reversible Ratchet Wrench and 4 bits: 27CB, 27EB, 27FB and 27GB described below. Meets government specifications.

27SG RATCHET BIT SET
Plastic kit with 27W Reversible Ratchet Wrench and 9 bits, as shown left to right in illustration and fully described below: 27KB, 27JB, 27CB, 27HB, 27EB, 27IB, 27FB, 27LB and 27GB.

Does the work of sets containing 15 bits and meets government specifications.

27SM RATCHET BIT SET
Plastic kit with 27W Reversible Ratchet Wrench and 5 bits: 27AB, 27CB, 27EB, 27FB and 27GB described below.

27W REVERSIBLE RATCHET WRENCH
With ¼" and 5/16" hex openings it will accommodate all the ratchet bits shown. 3⅞" long, has short stroke, is tempered and rustproofed.

K-D DOUBLE END BITS

All are for use in 27W Ratchet Wrench, are carefully machined and correctly tempered. All 1½" long. As found in the kits shown above:

May be ordered individually. Use correct number.
1001 uses

27AB One end for Phillips, sizes 0 to 12, other end for slotted screws, bit 9/32" wide

27BB One end ⅛" hex key, other end for slotted screws, bit 3/16" wide

27CB Hex keys 5/64" and 3/32"

27DB Hex keys 5/32" and 3/16"

27EB Hex keys ⅛" and 5/32"

27FB Hex keys 3/16" and 7/32"

27GB Hex keys ¼" and 5/16"

27HB Hex keys .050" and 1/16"

27IB For slotted screws, bit ¼" wide

27JB For slotted screws, bit 3/8" wide

27KB One end for Phillips, sizes to No. 4. Other end for Phillips, sizes 5 to 9.

27LB Square drive Adaptor

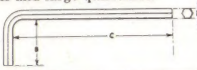
K-D SOCKET SCREW KEYS

K-D Keys are of the highest quality, accurately forged, correctly tempered. Only fine, tough, tool steel—no inferior materials—are used in their manufacture. Practical intermediate lengths for all work, compared with standard long and short keys.

Sold individually, in bulk, or in sets. See page 32 for counter display assortment.

INDIVIDUAL SOCKET SCREW KEYS

See price list. Write for prices on special lengths and large quantities.



SOCKET SCREW SIZES					Order Hex Key Sizes from D	
HOLLOW SET SCREWS	SOCKET HEAD CAP SCREWS	FLAT HEAD CAP SCREWS	STRIPPER BOLTS	PIPE PLUGS	C	B
No. 4					.050"	1 3/8"
No. 5 & 6		4			1/16"	1 9/16"
No. 8	No. 4	6			5/64"	2 3/16"
No. 10	No. 5 & 6	8			3/32"	2 7/16"
1/4"	No. 8	10	1/4"		1/8"	2 11/16"
5/16"	No. 10	1/4"	5/16"	1/8"	5/32"	3"
3/8"	1/4"	5/16"	3/8"	1/4"	3/16"	3 5/16"
7/16"	5/16"	3/8"			7/32"	3 3/4"
1/2 & 9/16"	3/8"	7/16"	1/2"	3/8"	1/4"	4 1/8"
5/8"	7/16" & 1/2"	1/2"	5/8"	1/2"	5/16"	4 5/8"
3/4"	1/2"	5/8 & 3/4"	3/4"	1/2"	3/8"	5 1/8"

29 KIT

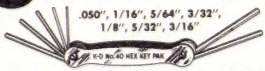
Seven hex keys plus No. 28 Extension Handle in plastic kit. Key sizes: 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4".

30 SET

Metal container with all 11 sizes (.050" to 3/8"), plus No. 31 Extension Handle. Easy to read chart stamped in container shows both set screw and cap screw sizes with corresponding key sizes. Kit 5 3/8" x 5 3/4", rustproofed.

Using Extension Handle on short end of key when long end is used to turn screw.

40 HEX KEY PAK



The seven most popular sizes contained in a sturdy, carry-in-your-pocket handle. Strong assembly with bolts so keys can be replaced. Same high quality of tool steel as other K-D keys. 3 3/4" long when folded.

METRIC HEX KEYS

For imported cars, etc. Made to close tolerances of select tool steel and properly tempered for long service life. Professional quality, not "price" items. Available individually in the following sizes:

2MM	4MM	8MM	14MM
2.5MM	5MM	10MM	17MM
3MM	6MM	12MM	19MM

Order by MM size

45 PAK

2MM, 2.5MM, 3MM, 4MM, 5MM, 6MM.

The six popular sizes in strong handle, small enough to carry in your pocket. Assembled with bolts so keys can be replaced. Tool steel, correctly heat treated . . . don't confuse this with the cheap sets. Only 3 1/8" long when folded.

46 SET

Eight popular sizes in handy plastic kit. Heat treated tool steel, not cheap cold rolled! Rust proofed.

2MM, 2.5MM, 3MM, 4MM, 5MM, 6MM, 8MM, 10MM.

For imported cars, machinery, appliances.

47 VOLKSWAGEN CRANKCASE DRAIN KEY

For removing and installing drain plug in VW. Same high professional quality as all K-D Keys. Special Steel, correctly tempered and rustproofed. 7" long.

Extension Handles for Socket Screw Keys

For extra leverage on short end of keys when long end must be used to reach screw. Large counterbore in one end, two smaller counterbores in opposite end. Rustproofed.

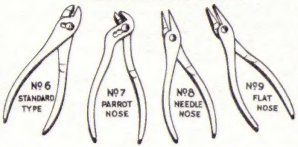
28 HANDLE For keys 5/64" to 1/4". 3 1/4" long.

31 HANDLE For keys .050" to 3/16". 5 1/16" long.

PLIERS AND TOOL KITS FOR HOBBYISTS

Pliers are beautifully fashioned from bright finish alloy steel, tempered to last a lifetime. Each 4-1/4″ long. Engine turned brass screwdrivers have hardened and ground blades. Attractive plastic cases can be imprinted. Submit your copy for quotation.

INDIVIDUAL PLIERS



4-1/4″ long. Forged steel, milled jaws, knurled handles. Tempered to correct hardness, bright cadmium finish. May be ordered separately.

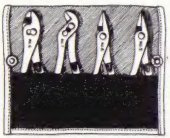
5B TOOL KIT

Screwdriver detail.

Contains Nos. 6 and 8 Pliers plus No. 5C 3-in-1 Screwdriver. Kit 3-3/4″ x 4-1/2″.

10K PLIERS KIT

Most popular!



Plastic roll contains Pliers No. 6, 7, 8, 9 described above. Roll measures 3″ x 4-3/4″ x 1/2″ thick, folded.

5KC TOOL KIT

Plastic case contains Nos. 6 and 8 Pliers; one ball-peen hammer; No. 5C 3-in-1 Screwdriver; one stainless steel 4″ rule calibrated in mms. and 1/32″. Case 5″ x 4-1/2″.

11K PLIERS KIT

Plastic roll contains Pliers No. 6, 7, 8. Roll measures 4-3/8″ x 5-1/4″, flat.

11K3 SET Pliers only.

12KC TOOL KIT

Red plastic case contains one amber handle screwdriver 2-3/4″ long with 1/16″ Bit for tiny screws; one 4″ stainless steel rule calibrated to mms. and 1/32″; one 4″ half round needle point jeweler's file; one No. 6 Pliers. Case 2-1/8″ x 4-3/4″ folded.

90 NAILPULLER

Powerful, easy to use, especially convenient in tight places where ordinary bar pullers are too awkward to manage. Pocketsize, extra leverage.

For nails and fence staples. Satisfaction guaranteed up to tenpenny nails. Hardened tool steel counteracting jaws, rustproof finish. 12″ long.

OPERATION

1. Driving Jaws under nail.
2. Pulling.
3. Double leverage.

Counter Displays

290

MASTER BRAKE TOOLS

Sturdy easeled display card to show off these fast sellers. Heavy card printed green and white. For complete description of tools, see page 11.

33

SOCKET SCREW KEY COUNTER ASSORTMENT

Bright orange metal display box with key size reference chart in lid. Packed as follows:

5 keys .050	10 keys 3/16"
20 keys 1/16"	10 keys 7/32"
20 keys 5/64"	10 keys 1/4"
20 keys 3/32"	5 keys 5/16"
20 keys 1/8"	5 keys 3/8"
20 keys 9/32"	(Total 145 pcs)

55

S.A.E. WASHER ASSORTMENT

One half pound each of 3/16", 1/4", 5/16", 3/8", 7/16" and 1/2", all bright cadmium finish. A very attractive and useful package for shop, home, farm.

K-D BRITE STEEL WASHERS

Made of highest quality cold rolled steel conforming to S.A.E. and U.S. standards. Sizes 1/8" to 1" inclusive. Cut flat and clean, holes always centered. Packed in 1 lb. boxes, 5 lb. boxes or in bulk. (See Catalog Supplement 29W for complete listings.)

K-D MANUFACTURING CO., LANCASTER, PA., U. S. A.

Printed in US of America